

**Petition for Tariff**  
**&**  
**Aggregate Revenue Requirement (ARR)**  
**For FY 2015-16**  
**For**  
**Suratgarh Super Thermal Power Station (STPS)**  
**Unit (1 to 6)**

Submitted to  
Rajasthan Electricity Regulatory Commission  
Jaipur  
by  
Rajasthan Rajya Vidyut Utpadan Nigam Limited  
Vidyut Bhavan, Janpath, Jaipur

**November-2014**

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## Definitions

<b>Act</b>	The Electricity Act, 2003
<b>Application</b>	This ARR and Tariff Petition for FY-2015-16 for Suratgarh Thermal Power Station of Rajasthan Rajya Vidyut Utpadan Nigam Limited, Jaipur
<b>Auxiliary Consumption (Aux. Con.)</b>	Auxiliary Consumption in relation to a period means the quantum of energy consumed by auxiliary equipment of the generating station and transformer losses within the generating station, and shall be expressed as a percentage of the sum of gross energy generated at the generator terminals of all the units of the generating station
<b>Availability</b>	Availability shall have the same meaning as defined in Section 2(7) of the RERC Tariff Regulations 2014.
<b>Distribution Company / Discoms</b>	Discoms or Distribution Company shall mean a company engaged primarily in the business of distribution & supply of electricity in its area of supply including Jaipur Vidyut Vitran Nigam Ltd. (JVVN), Ajmer Vidyut Vitran Nigam Ltd. (AVVN) and Jodhpur Vidyut Vitran Nigam Ltd. (JdVVN).
<b>Gross Calorific Value (GCV)</b>	Gross Calorific Value in relation to a thermal power generating station means the heat produced in kCal by complete combustion of one kilogram of solid fuel or one litre of liquid fuel or one standard cubic meter of gaseous fuel, as the case may be.
<b>Regulation</b>	The Rajasthan Electricity Regulatory Commission (Terms and Conditions for Determination of Tariff) Regulations, 2014 notified by RERC on March- 27, 2014
<b>State</b>	The State of Rajasthan.
<b>Gross Station Heat Rate</b>	Heat energy input in kCal required to generate one unit (kWh) of electrical energy at generator terminals.
<b>Unit</b>	Unit in relation to a generating station means electric generator, its prime mover and auxiliaries and in relation to a combined cycle thermal power generating station includes combustion turbine – generators, associated waste heat recovery boilers, connected steam turbine-generator and auxiliaries

## **ABBREVIATIONS**

ARR	Aggregate Revenue Requirement
Ajmer Discom	Ajmer Vidyut Vitran Nigam Limited
CSR	Corporate Social Responsibility
FRP	Financial Restructuring Plan
FY	Financial Year
FY – 14	Financial Year 2013-14
FY – 15	Financial Year 2014-15
FY – 16	Financial Year 2015-16
GCV	Gross Calorific Value
GFA	Gross Fixed Assets
Gol	Government of India
GoR	Government of Rajasthan
Jaipur Discom	Jaipur Vidyut Vitran Nigam Limited
Jodhpur Discom	Jodhpur Vidyut Vitran Nigam Limited
KWh	Kilo Watt Hour or Unit
MU	Million Units
MW	Megawatts
PLF	Plant Load Factor
PPA	Power Purchase Agreement
R&M	Repairs and Maintenance
RERC/ Commission	Rajasthan Electricity Regulatory Commission
RVUN	Rajasthan Rajya Vidyut Utpadan Nigam Limited
RVPN	Rajasthan Rajya Vidyut Prasaran Nigam Limited
Rs.	Indian Rupees
SHR	Station Heat Rate
Transfer Scheme	The Rajasthan Power Sector Reforms Transfer Scheme, 2000

## A1: BACKGROUND

- 1.1 Rajasthan Rajya Vidyut Utpadan Nigam Ltd (RVUN) was incorporated under the Companies Act 1956, as one of the five successor companies of erstwhile Rajasthan State Electricity Board (RSEB) to take over the electricity generation business in the state of Rajasthan. The existing power stations and those under commissioning in the state sector were transferred to RVUN as per the Rajasthan Power Sector Reforms Transfer Scheme, 2000 notified by State Government provisionally on 19th July 2000 and finally on 18th January 2002.
- 1.2 From 1<sup>st</sup> April 2004 onwards, RVPN is no longer responsible for the bulk purchase of power in Rajasthan. The capacity allocated to RVPN from RVUN generating stations has been reallocated to the three Discoms (Jaipur, Ajmer and Jodhpur) in the ratio of 39:29:32 from October 2011, 40:28:32 from June 2014 or as modified by competent authority from time to time. RVUN has entered into Long Term Power supply-Purchase Agreements (PPA) in respect of existing and future power projects for 25 Years with the three Discoms on 28.09.06 , 07.06.2007 and further supplementary PPA was signed on date 18.5.10 which includes STPS Unit 1 to 6 (1500MW).
- 1.1 RVUN have to file its petition for determination of Tariff and ARR Petition for 2015-16 in accordance with provision of RERC Tariff Regulation 2014. Accordingly this petition is being submitted for STPS (unit 1 to 6) for FY 2015-16 before RERC for Tariff and ARR determination.

## A2: GENERATION FORECAST

- 2.1 The installed capacity of STPS (Unit-1 to 6) is 1500 MW. The estimated figures of Gross generation, PLF & net energy sale to three Discoms from STPS station of RVUN for the period FY 2013-14, FY 2014-15 and FY 2015-16 are as shown in table below:

**Table 1: Gross generation, PLF & Ex-bus energy sale from STPS Station (Rs. In Crore)**

Particular	FY 13-14	FY 14-15	FY 15-16
STPS	Unit 1-6	Unit 1-6	Unit 1-6
Capacity (MW)	1500	1500	1500.00
PLF (%)	71.61%	80.12%	82.00%
Gross generation (MU)	9,409.55	10,527.75	10,804.32
Aux Cons. (%)	9.06%	9.13%	9.00%
Net Generation (MU)	8,557.05	9,566.33	9,831.93

- 2.2 The fixed cost elements are detailed hereunder for STPS for the FY 2013-14, FY 2014-15 and FY 2015-16 are as below.

## FIXED CHARGES

### A3: STPS (UNIT 1 TO 6) ANNUAL CAPACITY (FIXED) CHARGES FOR 2015-16

#### Depreciation:-

- 3.1 **The Capital cost of STPS unit 6** has been considered as per Hon'ble Commission Order dated 6.06.2013, however the reduction on account of WCT has mentioned in 06.06.2013 order has not been considered while computing the capital cost by RVUN as the matter is pending in appeal before APTEL. Further, the additional capitalization of Rs. 48.71 crore as claimed in rejoinder dated 19/09/13 (as also reflected in the audited figures of STPS plant) has been added to the capital cost computed as follows:

**Table 2: Capital cost of STPS Unit 6**

Particular	Amount (Rs Crore)
Approved by Commission in order dated 6.6.2013	978.09
Add: WCT (Work Contract Tax) as matter is pending in appeal before APTEL	14.26
Total as on 31.3.2010	<b>992.35</b>
Add: Addition as per rejoinder and audited accounts for FY 2010-11	<b>48.71</b>
<b>Total: Balance of capital cost as on 31.3.2011</b>	1041.06

- 3.2 Whereas the closing balance of gross fixed assets as on 31.03.2012 of unit 1-5 is Rs. 4232.29 crore. With the above calculation, the combined capital cost as on 31.03.2012 of unit 1-6 is Rs. 5273.35 crore.
- 3.3 During the FY 2012-13 and FY 2013-14, RVUN has booked an addition of Rs. 1.30 crore and Rs. 1.55 crore in gross fixed assets respectively.
- 3.4 While calculating the Fixed Asset and Provision for Depreciation (Form 6.1) the above capital cost and additions have been considered and accordingly calculation of Fixed Asset and Provision for Depreciation for Unit 1 to 6 has been shown in Form 6.1.
- 3.5 Depreciation of STPS (Unit 1 to 6) for FY 2013-14, FY 2014-15 has been calculated as per clause No.23 of RERC Tariff Regulations 2009 and for FY 2015-16 as per clause No. 22 of RERC Tariff Regulations 2014. Estimated figures of depreciation for FY 2013-14, FY 2014-15 and FY 2015-16 are summarised in table below :

**Table 3: Depreciation (Rs. in Crore)**

Station	FY 13-14	FY 14-15	FY 15-16
STPS	Unit 1-6	Unit 1-6	Unit 1-6
Depreciation	269.09	211.70	160.24

#### Interest on Loans:-

- 3.6 The loan-wise interest expenses & finance charges which include term loans as well as transitional loans have been worked-out and taken as part of fixed cost. The loan repayment amount for term loans and transitional loans combined has been taken equal to the depreciation figure envisaged for 2013-14, FY 2014-15 and 2015-16.



- 3.7 Estimated figures for interest on term loan, transitional loan and finance charges are summarised in table below:

**Table 4: Interest on Loans (Rs. In Crore)**

Station	FY 13-14	FY 14-15	FY 15-16
<b>STPS</b>	<b>Unit 1-6</b>	<b>Unit 1-6</b>	<b>Unit 1-6</b>
Interest (Term Loan + Transitional Loan) and finance charges	153.18	123.17	99.96
<b>Total</b>	<b>153.18</b>	<b>123.17</b>	<b>99.96</b>

### Interest on working Capital

- 3.8 The interest on working capital loan for FY 2013-14, FY 2014-15 has been computed as per the norms defined under clause No.28 of RERC Tariff regulation 2009 and for FY 2015-16 as per clause No. 27. For FY 2013-14, FY 2014-15 and FY 2015-16, the rate of interest on WLC has taken equal to 250 basis points higher than the average Base Rate of State Bank of India prevalent during first six months of the previous year. Estimated figure of Interest on Working Capital is summarised as below:

**Table 5: Interest on working Capital (Rs. in Crore)**

Station	FY 13-14	FY 14-15	FY 15-16
<b>STPS</b>	<b>Unit 1-6</b>	<b>Unit 1-6</b>	<b>Unit 1-6</b>
<b>Interest on Working Capital</b>	113.06	129.94	137.59

### Operation & Maintenance Expenses

- 3.9 The Operation & Maintenance Expenses have been computed as per the norms prescribed under Regulation 48 & 47 of RERC Tariff Regulation 2009 & 2014 respectively.

- 3.10 Estimated figures for the period FY 2013-14, FY 2014-15 and FY 2015-16 are summarised in Table below.

**Table 6: O & M Expenses (Rs. in Crore)**

Station	FY 13-14	FY 14-15	FY 15-16
<b>STPS</b>	<b>Unit 1-6</b>	<b>Unit 1-6</b>	<b>Unit 1-6</b>
<b>Operation and Maintenance</b>	205.18	241.35	255.47

## Recovery of ARR & Tariff Petition Fees

- 3.11 The Hon'ble Commission vide order dated 10.03.08 has allowed to pass through the fees levied for filling up of ARR & Tariff Petition, as expenses in the ARR. Accordingly, RVUN has claim the fee as under. The Commission may consider and allow the same.
- 3.12 The ARR & Tariff Petition Fees for FY 2013-14, FY 2014-15 and FY 2015-16 are summarised in table below :

**Table 7: Recovery of ARR & Tariff Petition Fees (Rs. in Crore)**

Station	FY 13-14	FY 14-15	FY 15-16
STPS	Unit 1-6	Unit 1-6	Unit 1-6
Petition Fee	0.75	0.75	0.75

## Insurance Charges

- 3.13 RVUN is claiming the insurance charges for STPS for the year 2015-16 based on the estimates of actual insurance charges paid in preceding year with an increment of 5% Yoyo (year on year). The details are shown in the table below

**Table 8: Insurance Charges (Rs. in Crore)**

Station	FY 13-14	FY 14-15	FY 15-16
STPS	Unit 1-6	Unit 1-6	Unit 1-6
Insurance Charges	2.42	2.54	2.67

## Return on Equity and Tax thereon

- 3.14 GOR (Government of Rajasthan) has made an announcement for ROE in annual budget. Accordingly the BOD of RVUN in its 238th meeting dated 24/07/2014 has approved to claim ROE and vide letter dated 14.08.2014 the Dy. Secretary to Govt. directed RVUN to implement the budget announcement enclosed as annexure A.
- 3.15 In compliance to the above direction of the state government, RVUN has decided to claim the return on equity for the FY 2014-15 along with the MAT (Minimum Alternative Tax) as per Regulation 20 & 29 respectively of Rajasthan Electricity Regulatory Commission (Terms and Conditions for Determination of Tariff) Regulations, 2014.
- 3.16 The Return on Equity (ROE) for FY 2013-14, FY 2014-15 and FY 2015-16 are summarised in Table below:

**Table 9: ROE and Tax**

Station	FY 13-14	FY 14-15	FY 15-16
STPS	Unit 1-6	Unit 1-6	Unit 1-6
Return on Equity (ROE)	0.00	186.15	186.15
Tax on ROE	0.00	49.36	49.36

## Non-Tariff Income

- 3.17 The following are the main head of accounts of Non tariff income:
- Sale of Scrap
  - Interest on FD/ Staff Loans
  - Miscellaneous receipts (rebates etc)

3.18 Estimated figures of Non Tariff Income for FY 2013-14, FY 2014-15 and FY 2015-16 are summarised in table below:

**Table 10: Non-Tariff Income (Rs. in Crore)**

Station	FY 13-14	FY 14-15	FY 15-16
STPS	Unit 1-6	Unit 1-6	Unit 1-6
Non Tariff Income	7.18	7.54	7.92

3.19 As per the RERC Tariff Regulations 2009 and 2014, the non-tariff income has been deducted from the fixed charges computed and only the net fixed charges are to be recovered from the three distribution companies.

**A4: STPS ESTIMATED CAPACITY CHARGES (FIXED)**

4.1 The net fixed charges is computed for FY 2013-14, FY 2014-15 and FY 2015-16 in the Table below

**Table 11: Net Capacity Charges for STPS (Rs. in Crore)**

	FY 13-14	FY 14-15	FY 15-16
	Unit 1-6	Unit 1-6	Unit 1-6
<b>Fixed Charge</b>			
Depreciation	269.09	211.70	160.24
Interest on term Loan & Transitional Loan	153.18	123.17	99.96
Return on Equity	0.00	186.15	186.15
Interest on Working Capital	113.06	129.94	137.59
O & M Expenses	205.18	241.35	255.47
Insurance Charges	2.42	2.54	2.67
Tax on ROE	0.00	49.36	49.36
Recovery of ARR and Tariff Petition Fee	0.75	0.75	0.75
Less: Non-Tariff income	7.18	7.54	7.92
Net Fixed Charge	736.50	937.43	884.27

**A5: VARIABLE CHARGES**

5.1 The Tariff Regulations, 2014 allows SHR 2500 kCal/kWh for Units 1 to 5 and 2357.68 kCal/kWh new 250 MW Unit (Unit #6). Aux. Consumption is considered as 9.0 % for all the six units of STPS. The weighted average of SHR works out to be 2476.28 kCal/kWh and Aux. Consumption 9% for FY 14-15. These figures have been considered for the calculations of variable charges for FY 2015-16.

5.2 The impact of blending of imported coal is taken as 10% for the period FY16. It is added that any variation in the cost of generation due to change of Qty. /quality of coal will be adjusted in fuel price adjustment (FPA) prescribed by the Commission.

5.3 For estimates of FY16, the average Gross calorific value of the coal/oil and the average rate of coal/oil supply have been calculated on the basis of receipts of previous three months during April, May and June of 2014 as per Commission's formats. For FY 2015-16, GCV of indigenous coal has been considered as 3664 kCal/kg and the price of indigenous coal has been taken as Rs. 4980.15 per MT. Wt. average GCV of secondary fuel (OIL) been considered as 9500 kCal/ltr. for HFO and 9200 kCal/ltr for LDO. Price of the HFO and LDO has been taken as Rs. 51671.55/kl and 65214.45/kl.

5.4 As regards Imported Coal, the average GCV has been considered as 6350 kCal/Kg for FY 2015-16 and the price has been taken as Rs. 8752 /MT for FY 2015-16 on the basis of imported coal figures for the months of April, May and June of 2014 as per Commission's formats. The base price & GCV of Imported Coal has been considered on the basis of latest purchase order placed.

5.5 The overall estimated figures of variable Cost for the period under consideration, are summarised in Table below.

**Table 12: Variable Cost (Rs. in Crores)**

Particular	FY 13-14	FY 14-15	FY 15-16
	Unit 1-6	Unit 1-6	Unit 1-6
Capacity (MW)	1500.00	1500.00	1500.00
Availability %	79.68%	85.00%	82%
PLF (%)	71.61%	80.12%	82%
Gross Generation (MU)	9409.55	10527.75	10804.32
Aux Cons. (%)	9.06%	9.13%	9%
Net Generation (MU)	8557.05	9566.33	9831.93
SHR (Kcal/ kWh)	2616.20	2506.99	2476.28
GCV of Indigeneous Coal (kCal/ Kg)	3739.00	3604.00	3664.00
GCV of HFO (kCal/ Ltr)	9500.00	9500.00	9500.00
GCV of LDO (kCal/ Ltr)	9200.00	9200.00	9200.00
GCV of Imported Coal (kCal/ Kg)	6600.00	6350.00	6350.00
Sp. Indigeneous Coal consumption (Kg/ kWh)	0.65	0.61	0.57
Sp. HFO consumption (ml/kWh)	0.80	0.56	0.45
Sp. LDO consumption (ml/kWh)	0.06	0.03	0.05
Sp. Imported Coal consumption (Kg/kWh)	0.02	0.05	0.06
Price of Indegeneous (Rs/MT)	4480.00	4743.00	4980.15
Price of HFO (Rs./kl)	47718.00	49211.00	51671.55
Price of LDO (Rs./kl)	61912.00	62109.00	65214.45
Price of Imported (Rs/MT)	9440.00	8752.00	8752.00
Cost of Indegeneous Coal (Rs.in Crore)	2758.25	2976.22	3043.48
Cost of HFO (Rs. In crores)	36.07	38.81	25.12
Cost of LDO (Rs. In crores)	3.41	4.31	3.52
Cost of Imported Coal (Rs.in Crore)	217.21	489.11	594.28

Fuel cost (Total Variable Cost) (Rs. In Crore)	3014.95	3508.45	3666.41
Variable Cost (Rs/KWh sent out)	3.52	3.67	3.73

#### A6: ESTIMATED ARR FOR STPS

6.1 The recovery of ARR proposed for STPS is summarised in table below

**Table 13: ARR for STPS (Rs. in Crores)**

Particular	FY 13-14	FY 14-15	FY 15-16
	Unit 1-6	Unit 1-6	Unit 1-6
Capacity (Fixed Charges)	736.50	937.43	884.27
Variable Cost	3014.95	3508.45	3666.41
Aggregate Revenue Requirement	3751.45	4445.88	4550.68

#### A7: STPS ESTIMATED TARIFF

7.1 Total per Unit charge in Rs. / kWh is given in given table below:-

**Table 14: STPS ESTIMATED TARIFF**

Particular	FY 13-14	FY 14-15	FY 15-16
	Unit 1-6	Unit 1-6	Unit 1-6
Ex-Bus Generation (MU)	8557.05	9566.33	9831.93
Capacity(fixed) Charges	736.50	937.43	884.27
Variable Cost	3014.95	3508.45	3666.41
Rate of Fixed Charge(Rs/kWh)	0.86	0.98	0.90
Rate of Variable Charge(Rs/kWh)	3.52	3.67	3.73
Rate of Sale of Energy (Rs/kWh)	4.384	4.647	4.628

#### A8: FUEL COST ADJUSTMENT

8.1 As per RERC Tariff Regulation 2014, there is provision of fuel cost adjustment on account of fuel related costs of electricity generation to take care of any variation in the variable cost. The fuel cost adjustment will be made accordingly.

#### A9: RESPONDENTS:-

9.1 All the three Discom's (i.e JVNL/AVNL/ Jd.VNL) Jaipur/ Ajmer/ Jodhpur are respondents for the above petition.

**A10: PRAYER**

RVUN humbly requests the Hon'ble Commission to:

- ◆ Approval of ARR & Tariff for FY-2015-16.
- ◆ To allow provisional Tariff w.e.f. 1.4.15 for FY 2015-16 till final tariff order is issued as proposed in the petition
- ◆ And pass such other further orders as are deemed fit and proper in the facts and circumstances of the case

(M. K. Khandelwal)  
Chief Accounts Officer (IA&C)  
RVUN, Jaipur.

(P.S. Arya)  
Chief Engineer (PPMC & IT)  
RVUN, Jaipur.

## Form G 1.1

## Summary of Tariff Proposal

Name of the Petitioner  
Name of the Power Station /Unit :

Rajasthan Rajya Vidhyut Utpadan Nigam Ltd.  
Suratgarh Super Thermal Power Station

(Rs. Crore)

S.No.	Particulars	Ref.of Form No	2013-14	FY 2014-15			FY 2015-16	Remark
			Actual/Audited	Approved by the Commission	Apr-Sep (Actual)	Oct-March (Estimated)	Anticipated	
1	2	3	4	5	6	7	9	10
<b>1</b>	<b>Capacity (Fixed) Charge</b>							
1.1	Depreciation	6.1	269.09	176.99	105.85	105.85	160.24	
1.2	Interest on term Loan & Transitional Loan	6.2	153.18	126.82	61.59	61.59	99.96	
1.3	Return on Equity	6.9	0.00	0.00	93.08	93.08	186.15	
1.4	Interest on Working Capital	6.11	113.06	125.80	64.93	65.00	137.59	
1.5	O & M Expenses	4.1	205.18	241.35	120.68	120.68	255.47	
1.6	Insurance Charges	6.12	2.42	2.63	1.27	1.27	2.67	
1.7	Tax on ROE	6.13	0.00	0.00	24.68	24.68	49.36	
1.9	Recovery of ARR and Tariff Petition Fee		0.75	0.75	0.38	0.38	0.75	
2.1	Less: Non-Tariff income	3.2	7.18	8.14	3.77	3.77	7.92	
	<b>Total (1)- Capacity (Fixed Charges)</b>		<b>736.50</b>	<b>666.20</b>	<b>468.68</b>	<b>468.75</b>	<b>884.27</b>	
<b>2</b>	<b>Total- Energy (variable ) charges</b>		<b>3014.95</b>	<b>3511.12</b>	<b>1754.00</b>	<b>1754.45</b>	<b>3666.41</b>	
<b>3</b>	<b>Units sold to Discoms (MU)</b>		<b>8557.05</b>	<b>9805.07</b>	<b>4677.23</b>	<b>4889.10</b>	<b>9831.93</b>	
<b>4</b>	<b>Rate of Fixed Charges. ( 1/3)</b>		<b>0.861</b>	<b>0.679</b>	<b>1.002</b>	<b>0.959</b>	<b>0.899</b>	
<b>5</b>	<b>Rate of Variable Charges.</b>			3.581				
5.1	Rate of Energy Charge from Primary Fuel (REC)	5.1						
	(i) Coal/ Lignite		3.223		3.219	3.008	3.096	
	(ii) Imported Coal		0.254		0.497	0.525	0.604	
	(iii) Any Other fuel							
	Total 2.1							
5.2	Rate of Energy Charge from Secondary Fuel (REC)	5.1	0.046		0.034	0.056	0.029	
5.3	Total-(2) Rate of Energy Charge ex-bus(REC) <sup>3</sup>	5.1	4.384	4.260	4.752	4.547	4.628	

Form G 1.2

Aggregate Revenue Requirement

Name of the Petitioner

Rajasthan Rajya Vidhyut Utpadan Nigam Ltd.

Name of the Power Station/Unit:

Suratgarh Super Thermal Power Station

(Rs. Crore)

S.No.	Particulars	Reference Form	2013-14	FY 2014-15			FY 2015-16	Remarks
			Actual/Audited	Approved by the Commission	Apr-Sep (Actual)	Oct-March (Estimated)	Anticipated	
1	2	3	4	5	6	7	9	10
<b>A</b>	<b>Receipts</b>							
1	Revenue from Sale of Power (Tariff income)	3.1	3751.45	4177.32	2222.68	2223.20	4550.68	
2	Non Tariff income		7.18	8.14	3.77	3.77	7.92	
3	Revenue Subsidies, Grants & Subvention from State Govt.							
	<b>Total- (A)</b>		<b>3758.63</b>	<b>4185.46</b>	<b>2226.45</b>	<b>2226.97</b>	<b>4558.60</b>	
<b>B</b>	<b>Expenditure</b>							
1	Variable Costs, including Fuel Cost	5.1	3014.95	3511.12	1754.00	1754.45	3666.41	
2	Depreciation	6.1	269.09	176.99	105.85	105.85	160.24	
3	Interest on term Loan & Finance charges	6.2	153.18	126.82	61.59	61.59	99.96	
4	Return on Equity	6.9	0.00	0.00	93.08	93.08	186.15	
5	Tax on ROE	6.15	0.00	0.00	24.68	24.68	49.36	
6	Interest on Working Capital	6.11	113.06	125.80	64.93	65.00	137.59	
7	O & M Expenses	4.1	205.18	241.35	120.68	120.68	255.47	
8	Insurance Charges	6.14	2.42	2.63	1.27	1.27	2.67	
9	Recovery of ARR and Tariff Petition Fee		0.75	0.75	0.38	0.38	0.75	
<b>C</b>	<b>Total- (B) Expenditure</b>		<b>3758.63</b>	<b>4185.46</b>	<b>2226.45</b>	<b>2226.97</b>	<b>4558.60</b>	
<b>D</b>	<b>A.R.R. (C-A.2)</b>		<b>3751.45</b>	<b>4177.32</b>	<b>2222.68</b>	<b>2223.20</b>	<b>4550.68</b>	



Form G 2.1

Plant Characteristics

Name of the Petitioner	Rajasthan Rajya Vidut Utpadan Nigam Limited, Jaipur (Raj.)
Name of the Power Station/Unit:	Suratgarh Super Thermal Power Station

Basic characteristics of the plant <sup>1</sup>	Coal Based Thermal Power Plant (Conventional Steam Generator)						
Special Features of the Plant							
Site Specific Features <sup>2</sup>	Intake water system from IGNP						
Special Technological Features <sup>3</sup>							
Environmental Regulation related features <sup>4</sup>	ESPs of 99.886% efficiency installed for regulation of SPM						
Any other special features							
Fuel Details <sup>5</sup>	Primary Fuel		Secondary Fuel		Alternate Fuels		
	Coal		HFO & LDO				
Details	Unit number						
	1	2	3	4	5	6	& so on
	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	
Installed Capacity (IC)	250	250	250	250	250	250	
Date of Commercial Operation (COD)	01-Feb-99	01-Oct-00	15-Jan-02	31-Jul-02	19-Aug-03	30-Dec-09	
Type of cooling system <sup>6</sup>	Closed Circuit System						
Type of Boiler Feed Pump <sup>7</sup>	Electric Motor Driven						
Pressure (kg/cm <sup>2</sup> )	154.1 Kg/Cm <sup>2</sup> (Super Heater Outlet)						
Temperature 0C							
-At Superheater Outlet	540 Deg C						
-At Reheater Outlet	540 Deg C						
Turbine Cycle heat Rate(Kcal/ Kwh)							
Boiler Efficiency (%)						87.76%	
Guaranteed Design Heat rate (kCal/kWh) <sub>s</sub>	2343 (2260 (Design Heat Rate) + 83 (Acceptable tolerance of 2.5% for Turbine Heat Rate & 1% for Boiler Efficiency))					1980	
Conditions on which guaranteed							
% MCR	250 MW						
% Makeup	0% Make up						
Design Fuel	Coal (FC 27%, VM 18%, Moisture 10%, Ash 45%, HHV 3500 Kcal/Kg)						
Design cooling water Temperature	33 Deg C						
Back Pressure	76 mm/Hg						

**Form G 2.2**  
**Operational Parameters - Generation**

Name of the Petitioner

Rajasthan Rajya Vidhyut Utpadan Nigam Ltd.

Name of the Station/Unit:

Suratgarh Super Thermal Power Station

S. No.	Particulars	Units	2013-14	FY 2014-15			FY 2015-16
			Audited/Actual	Approved by the Commission	Apr-Sep (Actual)	Oct-March (Estimated)	Anticipated
1	2	3	4	5	6	7	9
<b>1</b>	<b>Operational Parameters - Hydel</b>						
1.1	Total Capacity	MW	NA	NA	NA	NA	NA
1.2	Capacity Index	%	NA	NA	NA	NA	NA
1.3	Design Energy	MU	NA	NA	NA	NA	NA
1.4	Gross Generation	MU	NA	NA	NA	NA	NA
1.5	Auxiliary Energy Consumption	%	NA	NA	NA	NA	NA
1.6	Auxiliary Energy Consumption	MU	NA	NA	NA	NA	NA
1.7	Net Generation	MU	NA	NA	NA	NA	NA
<b>2</b>	<b>Operational Parameters - Thermal</b>						
2.1	Total Capacity	MW	1500	1500	1500	1500	1500
2.2	Availability	%	79.68%	0.00%	88.47%	85.00%	82.00%
2.3	Plant Load Factor	%	71.61%	82.00%	78.25%	82.00%	82.00%
2.4	Gross Generation	MU	9409.554	10774.800	5155.110	5372.640	10804.320
2.5	Auxiliary Energy Consumption	%	9.06%	9.00%	9.27%	9.00%	9.00%
2.6	Auxiliary Energy Consumption	MU	852.506	969.732	477.879	483.538	972.389
2.7	Net Generation	MU	8557.048	9805.068	4677.231	4889.102	9831.931
2.6	Heat Rate	Kcal/Kwh	2616.2	2476.28	2545	2500	2476.28

## Revenue from Sale of Power

Name of the Company  
Name of the Power Station :

Rajasthan Rajya Vidhyut Utpadan Nigam Ltd.  
Suratgarh Super Thermal Power Station

Year 2013-14

Rs. Crore

S.No.	Particulars	Allocation (in %) /contract demand	Unit Sold (M.U.)	% of total Unit Sold	Demand/fix ed Charges @	Energy Charges @	Others, if any	Total (6+7+8)	Average rate/kWh (paise/kWh)	Remarks
1	2	3	4	5	6	7	8	9	10	11
A)	Revenue from sale of Electricity(as per approved tariff)									
1	Dist.Licensee/trader/ consumers									
(a)	JVVNL		3337.25	39.0%	287.235774	1175.8		1463.07	438.40	
(b)	AVVNL		2481.54	29.0%	213.5855755	874.3		1087.92	438.40	
(c)	JDVVNL		2738.26	32.0%	235.680635	964.8		1200.46	438.40	
2	Other recoveries									
3	<b>Gross Revenue From Sale of Power</b>				<b>736.5019845</b>	<b>3014.95</b>				
4	less: i) State Levies Payable to Govt.									
5	Less. : ii) Revenue during trial runs (capitalised)									
6	<b>Net revenue</b>		<b>8557.05</b>		<b>736.50</b>	<b>3014.95</b>		<b>3751.45</b>		

Year 2014-15

Rs. Crore

S.No.	Particulars	Allocation (in %) /contract demand	Unit Sold (M.U.)	% of total Unit Sold	Demand/fix ed Charges @	Energy Charges @	Others, if any	Total (6+7+8)	Average rate/kWh (paise/kWh)	Remarks
1	2	3	4	5	6	7	8	9	10	11
A)	Revenue from sale of Electricity(as per approved tariff)									
1	Dist.Licensee/trader/ consumers									
(a)	JVVNL		3826.53	40.0%	374.9704128	1403.4		1778.35	464.74	
(b)	AVVNL		2678.57	28.0%	262.4792889	982.4		1244.85	464.74	
(c)	JDVVNL		3061.23	32.0%	299.9763302	1122.7		1422.68	464.74	
2	Other recoveries									
3	<b>Gross Revenue From Sale of Power</b>				<b>937.4260319</b>	<b>3508.45</b>				
4	less: i) State Levies Payable to Govt.									
5	Less. : ii) Revenue during trial runs (capitalised)									
6	<b>Net revenue</b>		<b>9566.33</b>		<b>937.43</b>	<b>3508.45</b>		<b>4445.88</b>		

Year 2015-16

Rs. Crore

S.No.	Particulars	Allocation (in %) /contract demand	Unit Sold (M.U.)	% of total Unit Sold	Demand/fix ed Charges @	Energy Charges @	Others, if any	Total (6+7+8)	Average rate/kWh (paise/kWh)	Remarks
1	2	3	4	5	6	7	8	9	10	11
A)	Revenue from sale of Electricity(as per approved tariff)									
1	Dist.Licensee/trader/ consumers									
(a)	JVVNL		3932.77	40.0%	353.7081136	1466.6		1820.27	462.85	
(b)	AVVNL		2752.94	28.0%	247.5956795	1026.6		1274.19	462.85	
(c)	JDVVNL		3146.22	32.0%	282.9664909	1173.3		1456.22	462.85	
2	Other recoveries									
3	<b>Gross Revenue From Sale of Power</b>				<b>884.270284</b>	<b>3666.41</b>				
4	less: i) State Levies Payable to Govt.									
5	Less. : ii) Revenue during trial runs (capitalised)									
6	<b>Net revenue</b>		<b>9831.93</b>		<b>884.27</b>	<b>3666.41</b>		<b>4550.68</b>		

Form G 3.2

NON-TARIFF INCOME

Name of the Petitioner **Rajasthan Rajya Vidhyut Utpadan Nigam Ltd.**  
 Name of the Power Station/ Unit: **Suratgarh Super Thermal Power Station**

Rs. Crore

S.No	Particulars	2013-14	FY 2014-15		FY 2015-16	Remarks	
		(Actuals/audited)	Approved by the	Apr-Sep (Actual)	Oct-March (Estimated)		(Anticipated)
1	2	3	4	5	6	8	9
	<b>Non-tariff income</b>						
i.	Intt on Govt. Subsidy	0		0	0	0	
ii.	Conveyance Advance	0		0	0	0	
iii.	House Building Advance	0		0	0	0	
iv.	Income from F.D.R. with Banks	0		0	0	0	
v.	Sale of scrap	4.73		2.48	2.48	5.21	
vi.	MISCELLANEOUS RECEIPTS	2.45		1.29	1.29	2.70	
	<b>Total non-tariff income</b>	7.18	8.14	3.77	3.77	7.92	

## REVENUE SUBSIDIES &amp; GRANTS

Name of the Petitioner:

Rajasthan Rajya Vidhyut Utpadan Nigam Ltd.

Name of the Power Station/Unit :

Suratgarh Super Thermal Power Station

S. No.	Particulars	Previous year (n-1)	Current Year (n)			Ensuing Year (n+1)	Remarks
		(Actuals/audited)	Approved by the Commission	Apr-Sep (Actual)	Estimated for the year	(Anticipated)	
1	2	3	4	5	6	7	8
A)	<b>Revenue Subsidies &amp; Grants</b>	N.A.					
1	Subvention from State Government towards sale of electricity						
2	State Govt. Grant against addl. Intt. Liability on Company						
3	Any Other item						
	<b>Total</b>						

## Capital Subsidies and Grants

Name of the Petitioner:  
Name of the Power Station/Unit :

Rajasthan Rajya Vidhyut Utpadan Nigam Ltd.  
Suratgarh Super Thermal Power Station

Rs. Crore

S. No.	Particulars	Previous year	Current Year			Ensuing Year (next)	Remarks
		(Actuals / audited)	Approved by the Commission	Apr-Sep (Actual)	Estimated for the year	(Anticipated)	
1	2	3	4	5	6	7	8
A	Capital Cost						
	Subsidy towards cost of Capitals Asset						
	Grant towards cost of Capitals Assets				N.A		
	Receipts from State Govt. under any scheme as grant/subsidy						
	<b>Total</b>						

## Form G 4.1

## O&amp;M Expenses

Name of the Petitioner:  
Name of the Station/Unit:

Rajasthan Rajya Vidhyut Utpadan Nigam Ltd.  
Suratgarh Super Thermal Power Station

(Rs. Crore)

S.No.	Particulars	2013-14	FY 2014-15			FY 2015-16
		(Actuals/audited)	Approved by the Commission	Apr-Sep (Actual)	Oct-March (Estimated)	(Anticipated)
1	2	3	4	5	6	8
1	O&M Expense norms (Rs. per MW)					0.17031265
2	Total Capacity in MW					1500.00
3	O&M expense					255.47
4	Special O&M expense for Water pipe lines>50 km					
a	Details of Water pumping Stations beyond 50 K.M. from Water intake point					
b	<b><u>Pumping Station No.1 :-</u></b>					
b.1	Power consumption Cost					
b.2	Repair / Maintenance / Employee / other Cost					
b.3	Sub total (b)					
c	<b><u>Pumping Station No.2 :-</u></b>					
	and so on .....					
d	Total (4) Special O&M Expenses					
5	<b>Total O&amp;M expenses</b>	<b>205.18</b>	<b>241.35</b>	<b>120.68</b>	<b>120.68</b>	<b>255.47</b>

**FORM 5.1/genco**

Details / Information to be submitted in respect of fuel for computation of Energy charges\* for FPA

Name of the Company : RVUN

Name of the Power Station : Suratgarh TPS (Information regarding **Bituminous Coal**)

S. No.	Month	Unit	(Apr-14)		(May-14)		(Jun-14)	
			Domestic coal	Imported coal	Domestic coal	Imported coal	Domestic coal	Imported coal
1	<b>Quantity of coal/Lignite in stock at the beginning of the month</b>	(MT)	185890	0	230395	0	157979	41737
2	Quantity of coal/Lignite supplied by coal / Lignite company	(MT)	574887	0	482607	73322	508054	32654
3	Adjustment (+/-) in quantity supplied made by Coalcompany <b>for diversion of wagons etc.</b>	(MT)	0	0	0	0	0	0
4	Coal supplied by Coal / Lignite Company <b>(2+3)</b>	(MT)	574887	0	482607	73322	508054	32654
5	Normative Transit & Handling Losses (For Coal / Lignite based Projects)	(MT)	-2658	0	-3159	0	-2986	0
6	Net coal / Lignite Supplied <b>(4-5)</b>	(MT)	577545	0	485766	73322	511040	32654
7	<b>Total coal (Receipts &amp; Opening Stock ) (1)+(6)</b>	(MT)	763435	0	716161	73322	669019	74391
8	<b>Coal / Lignite burnt /consumed</b>	(MT)	533040	0	558182	31585	500237	65781
9	<b>Coal / Lignite in stock at the end of the month (7-8)</b>	(MT)	230395	0	157979	41737	168782	8610
10	<b>Value of Coal in stock (at the start of month including freight)</b>	(Rs.)	875369372	0	1078054147	0	772252780	365370122
11	Amount charged by the Coal / Lignite company	(Rs.)	1219244137	0	1189999670	641868560	1136575296	285642918
12	Adjustment (+/-) in amount charged made by Coal company	(Rs.)	0	0	0	0	0	0
13	<b>Total amount charged (11+12)</b>	(Rs.)	1219244137	0	1189999670	641868560	1136575296	285642918
14	Transportation charges by Rail /Ship/Road transport	(Rs.)	1477617954	0	1232493305	0	1216659217	0
15	Adjustment (+/-) in amount charged made by Railways	(Rs.)	0	0	0	0	0	0
16	Demurrage, Coal agent, Railway staff and siding charges, if any	(Rs.)	0	0	280983	0	586310	0
17	Cost of diesel in transporting coal through MGR system, if applicable	(Rs.)	0	0	0	0	0	0
18	<b>Total transportation charges (14+-15-16+17)</b>	(Rs.)	1477617954	0	1232774288	0	1217245527	0
19	<b>Total amount charged for Coal / Lignite supplied including transportation (10+13+18)</b>	(Rs.)	3572231463	0	3500828105	641868560	3126073603	651013040
20	<b>Average cost of coal /lignite (Opening Stock + Receipts) (19/7)</b>	(Rs./MT)	4679.16	0.00	4888.33	8754.11	4672.62	8751.23
21	<b>Cost of coal in stock at the end of the month (20)x(9)</b>	(Rs.)	1078054147	0	772252780	365370122	788654664	75348124
22	Weighted average GCV of Coal / Lignite as fired	(Kcal/Kg)	3820	0	3670	6350	3492	6350
23	Wtd. Avg GCV Of Coal As Fired	(Kcal/Kg)	3820		3814		3824	



**FORM 5.1/genco**

Details / Information to be submitted in respect of fuel for computation of Energy charges\* for FPA

Name of the Company : RVUN

Name of the Power Station : Suratgarh TPS (Information regarding HFO & HSD)

Month	Unit	(Apr-14)		(May-14)		(Jun-14)	
		HFO	HSD	HFO	HSD	HFO	HSD
<b>Quantity of oil in stock at the beginning of the month</b>	(KL)	3126.180	149.851	2889.690	159.871	2322.090	166.921
Quantity of oil supplied by oil company	(KL)	0.000	24.000	0.000	40.000	0.000	40.000
Adjustment (+/-) in quantity supplied made by oil company <b>for diversion of wagons etc.</b>	(KL)	0.000	0	0.000	0	0.000	0
Oil supplied by oil company <b>(2+3)</b>	(KL)	0.00	24.000	0.00	40.00	0.00	40.00
Normative Transit & Handling Losses	(KL)	0	0	0	0	0	0
Net oil Supplied <b>(4-5)</b>	(KL)	0.00	24.000	0.000	40.00	0.000	40.00
<b>Total oil (Receipts &amp; Opening Stock ) (1)+(6)</b>	(KL)	3126.180	173.851	2889.690	199.871	2322.09	206.921
<b>Oil consumed</b>	(KL)	236.490	13.980	567.600	32.950	454.470	33.800
<b>Oil in stock at the end of the month (7-8)</b>	(KL)	2889.690	159.871	2322.090	166.921	1867.620	173.121
<b>Value of oil in stock at the beginning of the month</b>	(Rs.)	153841012	9823257	142203211	10339505	114271307	10542590
Amount charged by the oil company	(Rs.)	0	1420391	0	2284180	0	2238553
Adjustment (+/-) in amount charged made by oil company	(Rs.)	0	0	0	0	0	0
<b>Total amount charged (11+12)</b>	(Rs.)	0	1420391	0	2284180	0	2238553
Transportation charges by Rail /Ship/Road transport	(Rs.)	0	0	0	0	0	0
Adjustment (+/-) in amount charged made by Railways/Transport company	(Rs.)	0	0	0	0	0	0
Demurrage charges, if any	(Rs.)	0	0	0	0	0	0
Cost of diesel in transporting coal through MGR system, if applicable	(Rs.)	0	0	0	0	0	0
<b>Total transportation charges (14+/-15-16+17)</b>	(Rs.)	0	0	0	0	0	0
<b>Total amount charged for oil supplied including transportation (10+13+18)</b>	(Rs.)	153841012	11243648	142203211	12623685	114271307	12781143
<b>Average cost of oil (Opening Stock + Receipts) (19/7)</b>	(Rs./KL)	49210.54	64674.05	49210.54	63159.16	49210.54	61768.23
<b>Cost of oil in stock at the end of the Month/Qtr</b>	(Rs.)	142203211	10339505	114271307	10542590	91906592	10693377
Weighted average GCV of oil as fired	(kcal/Ltr)	9500	9200	9500	9200	9500	9200

**Energy Charges for Thermal Generation**

**Form G 5.3**

Name of the Petitioner: **Rajasthan Rajya Vidhyut Utpadan Nigam Ltd.**  
 Name of the Power Station/Unit: **Suratgarh Super Thermal Power Station**

S.No.	Particulars	Units	FY 2013-14				FY 2015-16		Remarks
			April-March (Audited)	Approved by the Commission	Apr-Sep (Actual)	Oct-March (Estimated)	Anticipated		
			Unit 1-6	Unit 1-6	Unit 1-6	Unit 1-6	Unit 1-6		
1	2	3	4	5	6	7	8	9	
<b>1</b>	<b>Operational Parameters</b>								
1.1	Total Capacity	MW	1500	1500	1500	1500	1500.00		
1.2	Availability	%	79.68%		88.47%	85.00%	82.00%		
1.3	PLF	%	71.61%	82.00%	78.25%	82.00%	82.00%		
<b>1.4</b>	<b>Gross Generation</b>	<b>MU</b>	<b>9409.55</b>	<b>10774.80</b>	<b>5155.11</b>	<b>5372.64</b>	<b>10804.32</b>		
1.5	Auxiliary Energy Consumption	%	9.06%	9.00%	9.27%	9.00%	9.00%		
1.6	Auxiliary Energy Consumption	MU	852.51	969.73	477.88	483.54	972.39		
<b>1.7</b>	<b>Net Generation</b>	<b>MU</b>	<b>8557.05</b>	<b>9805.07</b>	<b>4677.23</b>	<b>4889.10</b>	<b>9831.93</b>		
1.8	Heat Rate	kcal/kWh	2616.2	2476.28	2545	2500	2476.28		
<b>2</b>	<b>Fuel Parameters (for each primary and secondary fuel)</b>								
<b>2.1</b>	<b>Gross Calorific Value</b>								
2.1.1	Fuel - 1 (Indeigneous Coal)	kcal/Kg	3739	3664	3592	3664	3664.00		
2.1.2	Fuel - 2 (HFO)	kcal/Ltr.	9500	9500	9500	9500	9500.00		
2.1.3	Fuel - 3 (LDO)	kcal/Ltr.	9200	9200	9200	9200	9200.00		
2.1.4	Fuel - 4 (Imported Coal)	kcal/Kg	6600	6600	6350	6350	6350.00		
<b>2.2</b>	<b>Landed Fuel Price per unit (Please specify the fuel)</b>								
2.2.1	Fuel - 1 (Indeigneous Coal)	Rs/MT	4480	4743	4743	4743	4980.15		
2.2.2	Fuel - 2 (HFO)	Rs/KL	47718	49211	49211	49211	51671.55		
2.2.3	Fuel - 3 (LDO)	Rs/KL	61912	63706	62109	62109	65214.45		
2.2.4	Fuel - 4 (Imported Coal)	Rs/MT	9440	8752	8752	8752	8752.00		
<b>3</b>	<b>Fuel Consumption and Heat Contribution (for each fuel separately)</b>								
<b>3.1</b>	<b>Specific Fuel Consumption</b>								
3.1.1	Fuel - 1 (Indeigneous Coal)	Kg/ kWh	0.65		0.62	0.58	0.57		
3.1.2	Fuel - 2 (HFO)	ML/ kWh	0.80		0.59	0.45	0.45		
3.1.3	Fuel - 3 (LDO)	ML/ kWh	0.06		0.03	0.05	0.05		
3.1.4	Fuel - 4 (Imported Coal)	Kg/ kWh	0.02		0.05	0.06	0.06		
<b>3.2</b>	<b>Total Fuel Consumption</b>								
3.2.1	Fuel - 1 (Indeigneous Coal)	MT	6156814.00	0.00	3174769.00	3100214.17	6111230.93		
3.2.2	Fuel - 2 (HFO)	KL	7559.39	0.00	3024.16	4861.94	4861.94		
3.2.3	Fuel - 3 (LDO)	KL	551.58	0.00	154.17	540.22	540.22		
3.2.4	Fuel - 4 (Imported Coal)	MT	230096.00	0.00	265506.00	293346.14	679025.66		
<b>3.3</b>	<b>Heat Content (each fuel separately)</b>								
3.3.1	Fuel 1 (2.1.1 x 3.1.1)	Million kcal	23020327.55	0.00	11403770.25	11359184.71	22391550.14		
3.3.2	Fuel 2 (2.1.2 x 3.1.2)	Million kcal	71814.22	0.00	28729.51	46188.47	46188.47		
3.3.3	Fuel 3 (2.1.3 x 3.1.3)	Million kcal	5074.55	0.00	1418.41	4969.99	4969.99		
3.3.4	Fuel 4 (2.1.4 x 3.1.4)	Million kcal	1518633.60	0.00	1685963.10	1862748.01	4311812.94		
	Total Heat Content								
<b>4</b>	<b>Total Fuel Cost</b>								
4.1.1	Fuel 1 (Indeigneous Coal) (2.2.1 x 3.2.1)	Rs Crore	2758.25	0.00	1505.79	1470.43	3043.48		
4.1.2	Fuel 2 (HFO) (2.2.2 x 3.2.2)	Rs Crore	36.07	0.00	14.88	23.93	25.12		
4.1.3	Fuel 3 (LDO) (2.2.3 x 3.2.3)	Rs Crore	3.41	0.00	0.96	3.36	3.52		
4.1.4	Fuel 4 (Imported Coal) (2.2.4 x 3.2.4)	Rs Crore	217.21	0.00	232.37	256.74	594.28		
	<b>Total Fuel Cost</b>	<b>Rs Crore</b>	<b>3014.95</b>	<b>0.00</b>	<b>1754.00</b>	<b>1754.45</b>	<b>3666.41</b>		
<b>5</b>	<b>Details of limestone consumption (Applicable for Lignite based generating stations)</b>								
<b>6</b>	<b>Other Charges and Adjustments</b>								
<b>7</b>	<b>Total Cost (4+5+6)</b>	<b>Rs Crore</b>	<b>3014.95</b>	<b>3511.12</b>	<b>1754.00</b>	<b>1754.45</b>	<b>3666.41</b>		
<b>8</b>	<b>Cost of Generation per unit (at Generation Terminal) (7/1.4)</b>	<b>Rs/kWh</b>	<b>3.204</b>	<b>3.259</b>	<b>3.402</b>	<b>3.266</b>	<b>3.393</b>		
	<b>Energy Charge per unit (ex-bus) (7/1.7)</b>								
<b>9</b>									
9.1.1	Fuel - 1 (Indeigneous Coal)	Rs/kWh	3.223	0.000	3.219	3.008	3.096		
9.1.2	Fuel - 2 (HFO)	Rs/kWh	0.042	0.000	0.032	0.049	0.026		
9.1.3	Fuel - 3 (LDO)	Rs/kWh	0.004	0.000	0.002	0.007	0.004		
9.1.4	Fuel - 4 (Imported Coal)	Rs/kWh	0.254	0.000	0.497	0.525	0.604		
	<b>Total---(9)</b>	<b>Rs/kWh</b>	<b>3.523</b>	<b>3.581</b>	<b>3.750</b>	<b>3.588</b>	<b>3.729</b>		

## Fixed assets &amp; provisions for depreciation

Name of the Petitioner

Rajasthan Raja Vidhyut Utpadan Nigam Ltd.

Year (n-1) (2013-14)

(Figures in Rs Crore)

S. No.	Particular	Rate of depreciation %	Gross fixed assets				Provisions for depreciation				Net fixed assets at the beginning of the year	Net Fixed Asset at the end of the year
			At the beginning of the year	Additions during the year	Adjustment & deductons	At the end of the year	Cumulative upto the beginning of the year	Additions during the year	Adjustment during the year	Cumulative at the end of the year		
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Land & land rights	Nil	9.820	0.000	0.00	9.820	0.000	0.00	0.00	0.000	9.82	9.82
1A	Building & Civil works of Power plant	3.34	394.568	0.000	0.00	394.568	102.661	13.18	0.00	115.840	291.91	278.73
2	Hydraulic works	5.28	114.994	0.005	0.00	114.999	58.594	6.07	0.00	64.666	56.40	50.33
3	Other Civil works	3.34	67.750	0.000	0.00	67.750	21.948	2.26	0.00	24.211	45.80	43.54
4	Plant & machinery	5.28	4614.27	1.441	0.00	4615.72	2347.418	243.67	0.00	2591.090	2266.86	2024.63
5	Lines and Cable Networks	5.28	49.370	0.000	0.00	49.370	19.163	2.61	0.00	21.770	30.21	27.60
6	Vehicles	6.33	0.900	0.000	0.00	0.900	0.800	0.01	0.00	0.810	0.10	0.09
7	Furniture & fixtures	6.33	0.589	0.078	0.00	0.668	0.068	0.04	0.00	0.108	0.52	0.56
8	Office Equipments	6.33	6.481	0.022	0.00	6.504	1.679	0.41	0.00	2.090	4.80	4.41
9	Capital spares	5.28	15.896	0.000	0.00	15.896	3.230	0.84	0.00	4.069	12.67	11.83
	<b>Total (1) to (11)</b>		<b>5274.64</b>	<b>1.55</b>	<b>0.00</b>	<b>5276.19</b>	<b>2555.56</b>	<b>269.09</b>	<b>0.00</b>	<b>2824.65</b>	<b>2719.08</b>	<b>2451.54</b>

Year (n) (2014-15)

(Figures in Rs Crore)

S. No.	Particular	Rate of depreciation %	Gross fixed assets				Provisions for depreciation				Net fixed assets at the beginning of the year	Net Fixed Asset at the end of the year
			At the beginning of the year	Additions during the year	Adjustment & deductons	At the end of the year	Cumulative upto the beginning of the year	Additions during the year	Adjustment during the year	Cumulative at the end of the year		
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Land & land rights	Nil	9.82	0.00	0.00	9.820	0.000	0.00	0.00	0.000	9.82	9.82
1A	Building & Civil works of Power plant	3.34	394.57	0.00	0.00	394.568	115.840	12.17	0.00	128.014	278.73	266.55
2	Hydraulic works	5.28	115.00	0.00	0.00	114.999	64.666	6.02	0.00	70.681	50.33	44.32
3	Other Civil works	3.34	67.75	0.00	0.00	67.750	24.211	2.41	0.00	26.616	43.54	41.13
4	Plant & machinery	5.28	4615.72	0.00	0.00	4615.716	2591.090	187.05	0.00	2778.145	2024.63	1837.57
5	Lines and Cable Networks	5.28	49.37	0.00	0.00	49.370	21.770	2.60	0.00	24.373	27.60	25.00
6	Vehicles	6.33	0.90	0.00	0.00	0.900	0.810	0.00	0.00	0.813	0.09	0.09
7	Furniture & fixtures	6.33	0.67	0.00	0.00	0.668	0.108	0.01	0.00	0.117	0.56	0.55
8	Office Equipments	6.33	6.50	0.00	0.00	6.504	2.090	0.60	0.00	2.688	4.41	3.82
9	Capital spares	5.28	15.90	0.00	0.00	15.896	4.069	0.84	0.00	4.908	11.83	10.99
	<b>Total (1) to (11)</b>		<b>5276.19</b>	<b>0.00</b>	<b>0.00</b>	<b>5276.19</b>	<b>2824.65</b>	<b>211.70</b>	<b>0.00</b>	<b>3036.35</b>	<b>2451.54</b>	<b>2239.84</b>

Year (n-1) (2015-16)

(Figures in Rs Crore)

S. No.	Particular	Rate of depreciation %	Gross fixed assets				Provisions for depreciation				Net fixed assets at the beginning of the year	Net Fixed Asset at the end of the year
			At the beginning of the year	Additions during the year	Adjustment & deductons	At the end of the year	Cumulative upto the beginning of the year	Additions during the year	Adjustment during the year	Cumulative at the end of the year		
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Land & land rights	Nil	9.82	0.00	0.00	9.820	0.000	0.00	0.00	0.000	9.82	9.82
1A	Building & Civil works of Power plant	3.34	394.57	0.00	0.00	394.568	128.014	11.88	0.00	139.898	266.55	254.67
2	Hydraulic works	5.28	115.00	0.00	0.00	114.999	70.681	2.69	0.00	73.375	44.32	41.62
3	Other Civil works	3.34	67.75	0.00	0.00	67.750	26.616	1.84	0.00	28.461	41.13	39.29
4	Plant & machinery	5.28	4615.72	0.00	0.00	4615.716	2778.145	140.74	0.00	2918.882	1837.57	1696.83
5	Lines and Cable Networks	5.28	49.37	0.00	0.00	49.370	24.373	1.63	0.00	26.001	25.00	23.37
6	Vehicles	6.33	0.90	0.00	0.00	0.900	0.813	0.00	0.00	0.815	0.09	0.08
7	Furniture & fixtures	6.33	0.67	0.00	0.00	0.668	0.117	0.01	0.00	0.125	0.55	0.54
8	Office Equipments	6.33	6.50	0.00	0.00	6.504	2.688	0.60	0.00	3.286	3.82	3.22
9	Capital spares	5.28	15.90	0.00	0.00	15.896	4.908	0.84	0.00	5.748	10.99	10.15
	<b>Total (1) to (11)</b>		<b>5276.19</b>	<b>0.00</b>	<b>0.00</b>	<b>5276.19</b>	<b>3036.35</b>	<b>160.24</b>	<b>0.00</b>	<b>3196.59</b>	<b>2239.84</b>	<b>2079.60</b>

## Form G 6.2

## LOAN REPAYMENT &amp; INTREST LIABILITY

Name of the Petitioner  
Name of the Power Station :

Rajasthan Rajya Vidhyut Utpadan Nigam Ltd.  
Suratgarh Super Thermal Power Station

Name of the Petitioner  
Name of the Power Station :

Year (2013-14)														Rs. Crore	
S. No.	Source (loan)	Currency	Opening Balance	Anticipated Receipts	Anticipated Repayment	Interest rate		Closing Balance	Average Rate of Interest#	Liability of Interest during the year	Financial charges	Total interest & finance charges	Less: Interest charges capitalised	Net interest & finance charges	
						Fixed	Floating								
1	2	2A	3	4	5	6	7	8	9	10	11	12	13	14	
1	Term Loan + Transitional Loan	Indian	1345.72	0.00	269.09	12.48%		1076.63	12.48%	151.18	2.00	153.18	0.00	153.18	
2	Finance charges														
<b>Total (for Station)</b>			<b>1345.72</b>	<b>0.00</b>	<b>269.09</b>			<b>1076.63</b>		<b>151.18</b>	<b>2.00</b>	<b>153.18</b>	<b>0.00</b>	<b>153.18</b>	

Year (2014-15)														Rs. Crore	
S. No.	Source (loan)	Currency	Opening Balance	Anticipated Receipts	Anticipated Repayment	Interest rate		Closing Balance	Average Rate of Interest#	Liability of Interest during the year	Financial charges	Total interest & finance charges	Less: Interest charges capitalised	Net interest & finance charges	
						Fixed	Floating								
1	2	2A	3	4	5	6	7	8	9	10	11	12	13	14	
1	Term Loan + Transitional Loan	Indian	1076.63	0.00	211.70	12.48%		864.93	12.48%	121.17	2.00	123.17	0.00	123.17	
<b>Total (for Station)</b>			<b>1076.63</b>	<b>0.00</b>	<b>211.70</b>			<b>864.93</b>		<b>121.17</b>	<b>2.00</b>	<b>123.17</b>	<b>0.00</b>	<b>123.17</b>	

Year (2015-16)														Rs. Crore	
S. No.	Source (loan)	Currency	Opening Balance	Anticipated Receipts	Anticipated Repayment	Interest rate		Closing Balance	Average Rate of Interest#	Liability of Interest during the year	Financial charges	Total interest & finance charges	Less: Interest charges capitalised	Net interest & finance charges	
						Fixed	Floating								
1	2	2A	3	4	5	6	7	8	9	10	11	12	13	14	
1	Term Loan + Transitional Loan	Indian	864.93	0.00	160.24	12.48%		704.69	12.48%	97.96	2.00	99.96	0.00	99.96	
<b>Total (for Station)</b>			<b>864.93</b>	<b>0.00</b>	<b>160.24</b>			<b>704.69</b>		<b>97.96</b>	<b>2.00</b>	<b>99.96</b>	<b>0.00</b>	<b>99.96</b>	

**Form G 6.3**  
**Details of Project Specific Loans**

Name of the Petitioner  
Name of the Power Station  
Commercial Operation Date

Rajasthan Rajya Vidhyut Utpadan Nigam Ltd.  
Suratgarh Super Thermal Power Station

Particulars	Year (n-1)*						Rs. Crore
	Package1	Package2	Package3	Package4	Package5	Package6	
1	2	3	4	5	6	7	
Source of Loan <sup>1</sup>	LIC, PFC, Govt loan etc						
Currency <sup>2</sup>	Indian						
Amount of Loan sanctioned							
Amount of Gross Loan drawn upto <b>previos year/during current/ensuing year</b> /COD <small>3,4,5,13,15</small>	1714.96						
Interest Type <sup>6</sup>							
Fixed Interest Rate, if applicable							
Base Rate, if Floating Interest <sup>7</sup>							
Margin, if Floating Interest <sup>8</sup>	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No
Are there any Caps/Floor <sup>9</sup>							
If above is yes,specify caps/floor							
Moratorium Period <sup>10</sup>							
Moratorium effective from							
Repayment Period <sup>11</sup>							
Repayment effective from							
Repayment Frequency <sup>12</sup>							
Repayment Instalment <sup>13,14</sup>							
Base Exchange Rate <sup>16</sup>							

Consolidated report on additions to Fixed Assets during the year

Name of the Petitioner  
Name of the Power Station :

Rajasthan Rajya Vidhyut Utpadan Nigam Ltd.  
Suratgarh Super Thermal Power Station

(Rs. in crores)

S.No.	Asset Description	Asset Code	FY 13-14							FY 14-15							FY 15-16							Current Year (n+2)						
			(Actuals/audited)							(Actuals & Anticipated)							(Anticipated)							(Anticipated)						
			Cost	Interest	Finance Charges	Pre-Operative expenses	Exchange fluctuations	Total	Date of commissioning	Cost	Interest	Finance Charges	Pre-Operative expenses	Exchange fluctuations	Total	Date of commissioning	Cost	Interest	Finance Charges	Pre-Operative expenses	Exchange fluctuations	Total	Date of commissioning	Cost	Interest	Finance Charges	Pre-Operative	Exchange fluctuations	Total	Date of commissioning
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	11	12	13	14	15	16	17	11	12	13	14	15	16	17
	Land & land rights		0.00																											
	Building & Civil works of Power plant		0.00																											
	Hydraulic works		0.01																											
	Other Civil works		0.00																											
	Plant & machinery		1.44																											
	Lines and Cable Networks		0.00																											
	Vehicles		0.00																											
	Furniture & fixtures		0.08																											
	Office Equipments		0.02																											
	Capital spares		0.00																											
	Total		1.55																											

**Form G 6.5**

**Abstract of Capital Cost Estimates and Schedule of Commissioning for the New projects**

Name of the Petitioner : **Rajasthan Rajya Vidhyut Utpadan Nigam Ltd.**  
 Name of the Power Station : **Suratgarh Super Thermal Power Station**  
 New Projects  
 Capital Cost Estimates

Board of Director/ Agency approving the Capital cost estimates:							
Date of approval of the Capital cost estimates:							
	<b>Present Day Cost</b>			<b>Completed Cost</b>			
Price level of approved estimates	As of End of _____Qtr. Of the year _____			As on Scheduled COD of the Station			
Foreign Exchange rate considered for theCapital cost estimates	NA	NA	NA	NA	NA	NA	NA
<b>Capital Cost excluding IDC &amp; FC</b>	NA	NA	NA	NA	NA	NA	NA
Foreign Component, if any (In Million US \$ or the relevant Currency)	NA	NA	NA	NA	NA	NA	NA
Domestic Component (Rs. Cr.)	NA	NA	NA	NA	NA	NA	NA
<b>Capital cost excluding IDC &amp; FC (Rs. Cr)</b>	NA	NA	NA	NA	NA	NA	NA
<b>IDC &amp; FC</b>	NA	NA	NA	NA	NA	NA	NA
Foreign Component, if any (In Million US \$ or the relevant Currency)	NA	NA	NA	NA	NA	NA	NA
Domestic Component (Rs. Cr.)	NA	NA	NA	NA	NA	NA	NA
<b>Total IDC &amp; FC (Rs.Cr.)</b>	NA	NA	NA	NA	NA	NA	NA
Rate of taxes & duties considered	NA	NA	NA	NA	NA	NA	NA
<b>Capital cost Including IDC &amp; FC</b>	NA	NA	NA	NA	NA	NA	NA
Foreign Component, if any (In Million US \$ or the relevant Currency)	NA	NA	NA	NA	NA	NA	NA
Domestic Component (Rs. Cr.)	NA	NA	NA	NA	NA	NA	NA
<b>Capital cost Including IDC &amp; FC (Rs. Cr)</b>	NA	NA	NA	NA	NA	NA	NA
<b><u>Schedule of Commissioning</u></b>	NA	NA	NA	NA	NA	NA	NA
COD of Unit-I/Block-I	NA	NA	NA	NA	NA	NA	NA
COD of Unit-II/Block-II	NA	NA	NA	NA	NA	NA	NA
-----	NA	NA	NA	NA	NA	NA	NA
-----	NA	NA	NA	NA	NA	NA	NA
COD of last Unit/Block	NA	NA	NA	NA	NA	NA	NA

Break-up of Capital Cost for Coal/ Lignite / gas/ liquid fuel based projects

Form G 6.6

Name of the Petitioner:  
Name of the Power Station :

Rajasthan Raja Vidhyut Utpadan Nigam Ltd.  
Suratgarh Super Thermal Power Station

Rs. Crore.

S.No.	Break Down	Cost in Rs. Crores			Variation (Rs. Cr.)	Reasons for Variation	Admitted Cost (Rs. Cr.)
		As per original Estimates	Actual Expenditure as on COD	Liabilities/Provisions			
1	2	3	4	5	6	7	8
1.0	Land & Site Development						
2.0	Access road						
3.0	Temporary construction and enabling works						
4	Water storage system						
5.0	Water transportation system						
6.0	Railway system						
7.0	Steam generator / Boiler Island						
8.0	Steam Turbine Generator island including taxes, duties etc.						
9.0	<b>Balance of Plant</b>						
9.1	Mechanical BOP						
9.1.1	Coal handling system /fuel handling system and storage						
9.1.2	Ash handling system						
9.1.3	CW System						
9.1.4	DM Plant						
9.1.5	Raw water system						
9.1.6	Effluent treatment Plant						
9.1.7	Station Piping System						
9.1.8	Fire Fighting System						
9.1.9	Compressed Air System						
9.1.10	Air Conditioning and Ventilation System						
9.1.11	Misc. items including EOT cranes, hoist and elevators etc.						
9.1.12	Tax, Duties, F&I						
9.1.13	Spares						
9.2	<b>Electrical BOP</b>						
9.2.1	Power Transformers						
9.2.2	Switchyard						
9.2.3	Bus Duct						
9.2.4	HT Switchgear						
9.2.5	LT Switchgear						
9.2.6	DC Power System						
9.2.7	Power and Control Cables						
9.2.8	Control and Relay Panels						
9.2.9	Station Lighting				NA		
9.2.10	DG Set						
9.2.11	Electrical equipment erection, cabling and grounding						
9.2.12	Other Misc. items						
9.2.13	Taxes, Duties and F&I						
9.2.14	ETC and spares						
9.3	<b>Total BOP Civil Works</b>						
9.3.1	Main Power house building						
9.3.2	Plant water system						
9.3.3	Chimney						
9.3.4	Permanent Township						
9.3.5	Ash dyke						
9.3.6	Misc. plant buildings						
9.3.7	Temp. sheds						
10.0	Control and Instrumentation						
11.0	Operator Training						
12.0	Start up fuel						



**Break-up of Construction / Supply / Service packages**

Form G 6.7

Name of the Petitioner :

Rajasthan Rajya Vidhyut Utpadan Nigam Ltd.

Name of the Power Station :

Suratgarh Super Thermal Power Station

S.No.	Name/No. of Construction / Supply / Service Package	Scope of works <sup>1</sup> (in line with head of cost break-ups as applicable)	Whether awarded through ICB/DCB/ Deptamentally/ Deposit Work	No. of bids received	Date of Award	Date of Start of work	Date of Completion of Work	Value of Award <sup>2</sup> in (Rs. Cr.)	Firm or With Escalation in prices	Actual expenditure till the completion or up to COD whichever is earlier(Rs.Cr.)	Taxes & Duties and Pre-operative Expenses	IDC, FC, FERV & Hedging cost	Variation (Rs.Cr.)	Variation on account of change in Price (Rs. Cr.)	Reason for change in Price	Variation on account of change in Scope of Work (Rs. Cr.)	Reason for Change in Scope of Work
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1																	
2																	
3																	
4																	
5																	
6																	
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31																	
32																	

NA

## Draw Down Schedule for Calculation of IDC &amp; Financing Charges (year wise from commencement of works to COD)

Name of the Petitioner:

Rajasthan Rajya Vidhyut Utpadan Nigam Ltd.

Name of the Power Station

Suratgarh Super Thermal Power Station

Rs. Crore

S.No.	Draw Down Particulars	Quarter 1			Quarter 2			Quarter 3			Quarter 4		
		Quantum in Foreign currency	Exchange Rate on draw down date	Amount in Indian Rupee	Quantum in Foreign currency	Exchange Rate on draw down date	Amount in Indian Rupee	Quantum in Foreign currency	Exchange Rate on draw down date	Amount in Indian Rupee	Quantum in Foreign currency	Exchange Rate on draw down date	Amount in Indian Rupee
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	Loans												
1.1	Foreign Loans												
1.1	Total Foreign Loans												
	Draw down Amount												
	IDC												
	Financing charges												
1.2	Indian Loans												
1.2	Total Indian Loans												
	Draw down Amount												
	IDC												
	Financing charges												
1	Total of Loans drawn												
	IDC												
	Financing charges												
2	Equity												
2.1	Foreign equity drawn												
2.2	Indian equity drawn												
	Total equity deployed												

## RETURN ON EQUITY

Name of the Petitioner: Rajasthan Rajya Vidhyut Utpadan Nigam Ltd.  
 Name of the Power Station : Suratgarh Super Thermal Power Station

Rs. Crore

S.No.	Particulars	Reference	Previous year (n-1)	Current Year (n)			Ensuing Year (n+2)	Remarks
			(Actuals/audited)	Approved by the Commission	Apr-Sep (Actual)	Estimated for the year	(Anticipated)	
1	2	3	4	5	6	7 = 5+6	9	10
1	Equity at the beginning of the year			0	1200.97	1200.97	1200.97	
2	Capitalisation			0	0	0	0.00	
3	Equity portion of capitalisation			0	0	0	0.00	
4	Equity at the end of the year			0	1200.97	1200.97	1200.97	
	<b>Return Computation</b>							
5	Return on Equity at the beginning of the year	15.50%*(1)		0	93.08	93.08	186.15	
6	Return on Equity portion of capitalisation (on pro-rata basis)	15.5%*(3)/(n/12)		0		0	0.00	
7	<b>Total Return on Equity</b>	(5)+(6)		0	93.08	93.08	186.15	

## Statement of Additional Capitalisation after COD and Details for Financing

Name of the Petitioner: Rajasthan Rajya Vidhyut Utpadan Nigam Ltd.  
 Name of the Power Station: Suratgarh Super Thermal Power Station  
 COD: \_\_\_\_\_

(Rs. Crore)

S.No.	Work/Equipment added after COD up to Cut off Date / Beyond Cut off Date	Amount Capitalised / Proposed to be capitalised	Justification	Regulations under which such additional capitalisation has been claimed	Source of Finance					Admitted Cost <sup>I</sup>
					Loan 1	Loan 2 and so on	Total Loan	Equity	Internal Sources or Others (mention details)	
	Land & land rights	0.00								
	Building & Civil works of I	0.00								
	Hydraulic works	0.01								
	Other Civil works	0.00								
	Plant & machinery	1.44								
	Lines and Cable Networks	0.00								
	Vehicles	0.00								
	Furniture & fixtures	0.08								
	Office Equipments	0.02								
	Capital spares	0.00								
	Total (1) to (11)	1.55								

## Interest on Working Capital

Name of the Petitioner  
Name of the Power Station

Rajasthan Rajya Vidhyut Utpadan Nigam Ltd.  
Suratgarh Super Thermal Power Station

Rs. Crore

S. No.	Particulars		FY 2013-14	FY 2013-14			FY 2015-16	Remarks
			(Actuals / audited)	Approved by the Commission	Apr-Sep (Actual)	Oct-March (Estimated)	(Anticipated)	
1	2		3	4	5	6 = 4+5	8	9
1	Coal Cost ( Non pit head)	1½ Month	371.93	0.00	217.27	215.90	454.72	
2	Coal Cost ( Pit head)	Half month	NA	NA	NA	NA	NA	
3	Cost of Gas	Half month	NA	NA	NA	NA	NA	
4	Sec.Fuel Oil	Two month	6.58	0.00	2.64	4.55	4.77	
5	Liquid Fuel Stock	Half month	NA	NA	NA	NA	NA	
6	O & M expenses	One month	17.10		10.06	10.06	21.29	
	Maintenance Spares	20% of O&M	41.04		24.14	24.14	51.09	
	Receivables	1½ Month	468.93		277.84	277.90	568.84	
	<b>Total Working Capital</b>		<b>905.58</b>		<b>531.94</b>	<b>532.53</b>	<b>1100.71</b>	
	Rate of Interest (as per norms)		12.48%		12.21%	12.21%	12.50%	
	<b>Interest on Working Capital</b>		<b>113.06</b>	<b>119.89</b>	<b>64.93</b>	<b>65.00</b>	<b>137.59</b>	

## Insurance Expenses

Name of the Petitioner:  
Name of the Power Station :

Rajasthan Rajya Vidhyut Utpadan Nigam Ltd.  
Suratgarh Super Thermal Power Station

Rs. Crore

S. No.	Particulars	Previous Year	Current Year (n)			Ensuring Year	Remarks
		2013-14	2014-15			2015-16	
		(Actuals/audited)	Approved by the Commi	Apr-Sep (Actual)	Oct-March (Estimated)	(Anticipated)	
1	2	3	4	5	6	7	8
	<b>Insurance Expenses</b>						
a)	Provision made/ proposed for the year	2.42	2.63	1.27	1.27	2.67	
b)	Actual insurance expenses incurred	2.42					
c)	Average Net Fixed Assets	2857.89		1292.65	1292.65	3279.64	

## Tax on R.O.E.

Name of the Petitioner:

Rajasthan Rajya Vidhyut Utpadan Nigam Ltd.

Name of the Power Station :

Suratgarh Super Thermal Power Station

Rs.

S. No.	Particulars	Previous Year (n-1)	2014-15	2015-16	Remarks
		(Actuals/audited)	Actual/ Estimated	Proposed to be recovered	
1	2	3	4	6	7
A)	Advance Tax assessed & deposited on-----				
a)	for Quarter I & deposited on 15 th June.				
b)	for Quarter II & deposited on 15 th Sept.				
c)	for Quarter III & deposited on 15 th Dec.				
d)	for Quarter IV & deposited on 15 th March.				
	Total---(A)		49.36	49.36	
B)	Deffered tax liability before 01.04.2009				

Form G 7.1

Proposed improvement in performance

Name of the Petitioner  
Name of the Power Station :

Rajasthan Rajya Vidhyut Utpadan Nigam Ltd.  
Suratgarh Super Thermal Power Station

Rs. Crore

S.No.	Particulars	Previous year	Current year							Remarks
		FY 2013-14	FY 2014-15			FY 2015-16	n+3	n+4	n+5	
		(Actuals / audited)	Apr-Sep (Actual)	Oct-Mar (Estimated)	Total (April - March)					
1	2	3	4	5	6 = 4+5	8	9	10	11	12
1	Plant load factor	71.61%	78.25%	82.00%		82.00%				
2	Auxiliary consumption	9.06%	9.27%	9.00%		9.00%				
3	Specific fuel consumption									
(l)	coal, kg / kWh	0.68	0.67	0.64		0.63				
ii)	gas, SCM / kWh									
(iii)	oil, ml / kwh	0.86	0.62	0.50		0.50				
(iv)	Limestone kg / kWh									
(v)	any other fuel									
4	Station heat rate, kcal / kwh	2616.2	2545	2500		2476.28				
5	Annual Maitenance shut down days									
6	Forced / planned shut down except annual shut down									
(I)	number / year									
(ii)	cumulative duration, hours / year									
7	Fly ash utilisation, %	100%	100%	100%		100%				
8	Other bye product utilisation(give list)									
9	Outstanding dues, days of receivables									
10	Availability	79.68%	88.47%	85.00%		82.00%				